



Part of
Paper No. 14/A

<110> INCYTE GENOMICS, INC.; TANG, Y. Tom;
HILLMAN, Jennifer L.; YUE, Henry;
LAL, Preeti; BANDMAN, Olga;
CORLEY, Neil C.; GUEGLER, Karl J.;
BAUGHN, Mariah R.; LU, Dyung Aina M.;
AZIMZAI, Yalda; YANG, Junming

<120> HUMAN HYDROLASE PROTEINS

<130> PF-0634 USN

<140> US 09/831,455

<141> To Be Assigned

<150> PCT/US99/27009

<151> 1999-11-12

<150> US 60/135,519

<151> 1999-05-21

<150> US 60/172,256

<151> 1998-11-12

<160> 35

<170> PERL Program

<210> 1

<211> 159

<212> PRT

<213> Homo sapiens

<220>

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<223> Incyte ID No: 2293764CD1

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Val	Val	Thr	Val	Asp	Ala	Lys	Ile	Tyr	Glu	Leu	Cys	Glu	Leu	Ala
							20		25					30
Ala	Arg	Leu	Glu	Arg	Ala	Gly	Leu	Asn	Gly	Tyr	Lys	Gly	Tyr	Gly
							35		40					45
Val	Gly	Asp	Trp	Leu	Cys	Met	Ala	His	Tyr	Glu	Ser	Gly	Phe	Asp
							50		55					60
Thr	Ala	Phe	Val	Asp	His	Asn	Pro	Asp	Gly	Ser	Ser	Glu	Tyr	Gly
							65		70					75
Ile	Phe	Gln	Leu	Asn	Ser	Ala	Trp	Trp	Cys	Asp	Asn	Gly	Ile	Thr
							80		85					90
Pro	Thr	Lys	Asn	Leu	Cys	His	Met	Asp	Cys	His	Asp	Leu	Leu	Asn
							95		100					105
Arg	His	Ile	Leu	Asp	Asp	Ile	Arg	Cys	Ala	Lys	Gln	Ile	Val	Ser
							110		115					120
Ser	Gln	Asn	Gly	Leu	Ser	Ala	Trp	Thr	Ser	Trp	Arg	Leu	His	Cys
							125		130					135

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Ser Gly His Asp Leu Ser Glu Trp Leu Lys Gly Cys Asp Met His
140 145 150
Val Lys Ile Asp Pro Lys Ile His Pro
155

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<220>
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1 5 10 15
Ile Arg Gly Val Pro Glu Ser Leu Ala Ser Gly Glu Gly Ala Gly
20 25 30
Ala Gly Leu Pro Ala Leu Asp Leu Ala Lys Ala Gln Arg Glu His
35 40 45
Gly Val Leu Gly Gly Lys Leu Arg Gln Arg Leu Gly Leu Gln Leu
50 55 60
Leu Glu Leu Pro Pro Glu Glu Ser Leu Pro Leu Gly Pro Leu Leu
65 70 75
Gly Asp Thr Ala Val Ile Gln Gly Asp Thr Ala Leu Ile Thr Arg
80 85 90
Pro Trp Ser Pro Ala Arg Arg Pro Glu Val Asp Gly Val Arg Lys
95 100 105
Ala Leu Gln Asp Leu Gly Leu Arg Ile Val Glu Ile Gly Asp Glu
110 115 120
Asn Ala Thr Leu Asp Gly Thr Asp Val Leu Phe Thr Gly Arg Glu
125 130 135
Phe Phe Val Gly Leu Ser Lys Trp Thr Asn His Arg Gly Ala Glu
140 145 150
Ile Val Ala Asp Thr Phe Arg Asp Phe Ala Val Ser Thr Val Pro
155 160 165
Val Ser Gly Pro Ser His Leu Arg Gly Leu Cys Gly Met Gly Gly
170 175 180
Pro Arg Thr Val Val Ala Gly Ser Ser Asp Ala Ala Gln Lys Ala
185 190 195
Val Arg Ala Met Ala Val Leu Thr Asp His Pro Tyr Ala Ser Leu
200 205 210
Thr Leu Pro Asp Asp Ala Ala Ala Asp Cys Leu Phe Leu Arg Pro
215 220 225
Gly Leu Pro Gly Val Pro Pro Phe Leu Leu His Arg Gly Gly Gly
230 235 240
Asp Leu Pro Asn Ser Gln Glu Ala Leu Gln Lys Leu Ser Asp Val
245 250 255
Thr Leu Val Pro Val Ser Cys Ser Glu Leu Glu Lys Ala Gly Ala
260 265 270
Gly Leu Ser Ser Leu Cys Leu Val Leu Ser Thr Arg Pro His Ser
275 280 285

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Phe	Leu	Leu	Leu	Val	Leu	Leu	Leu	Val	Thr	Arg	Ser	Pro	Val	Asn
				20					25				30	
Ala	Cys	Leu	Leu	Thr	Gly	Ser	Leu	Phe	Val	Leu	Leu	Arg	Val	Phe
				35					40				45	
Ser	Phe	Glu	Pro	Val	Pro	Ser	Cys	Arg	Ala	Leu	Gln	Val	Leu	Lys
				50					55				60	
Pro	Arg	Asp	Arg	Ile	Ser	Ala	Ile	Ala	His	Arg	Gly	Gly	Ser	His
				65					70				75	
Asp	Ala	Pro	Glu	Asn	Thr	Leu	Ala	Ala	Ile	Arg	Gln	Ala	Ala	Lys
				80					85				90	
Asn	Gly	Ala	Thr	Gly	Val	Glu	Leu	Asp	Ile	Glu	Phe	Thr	Ser	Asp
				95					100				105	
Gly	Ile	Pro	Val	Leu	Met	His	Asp	Asn	Thr	Val	Asp	Arg	Thr	Thr
				110					115				120	
Asp	Gly	Thr	Gly	Arg	Leu	Cys	Asp	Leu	Thr	Phe	Glu	Gln	Ile	Arg
				125					130				135	
Lys	Leu	Asn	Pro	Ala	Ala	Asn	His	Arg	Leu	Arg	Asn	Asp	Phe	Pro
				140					145				150	
Asp	Glu	Lys	Ile	Pro	Thr	Leu	Arg	Glu	Ala	Val	Ala	Glu	Cys	Leu
				155					160				165	
Asn	His	Asn	Leu	Thr	Ile	Phe	Phe	Asp	Val	Lys	Gly	His	Ala	His
				170					175				180	
Lys	Ala	Thr	Glu	Ala	Leu	Lys	Lys	Met	Tyr	Met	Glu	Phe	Pro	Gln
				185					190				195	
Leu	Tyr	Asn	Asn	Ser	Val	Val	Cys	Ser	Phe	Leu	Pro	Glu	Val	Ile
				200					205				210	
Tyr	Lys	Met	Arg	Gln	Thr	Asp	Arg	Asp	Val	Ile	Thr	Ala	Leu	Thr
				215					220				225	
His	Arg	Pro	Trp	Ser	Leu	Ser	His	Thr	Gly	Asp	Gly	Lys	Pro	Arg
				230					235				240	
Tyr	Asp	Thr	Phe	Trp	Lys	His	Phe	Ile	Phe	Val	Met	Met	Asp	Ile
				245					250				255	
Leu	Leu	Asp	Trp	Ser	Met	His	Asn	Ile	Leu	Trp	Tyr	Leu	Cys	Gly
				260					265				270	
Ile	Ser	Ala	Phe	Leu	Met	Gln	Lys	Asp	Phe	Val	Ser	Pro	Ala	Tyr
				275					280				285	
Leu	Lys	Lys	Trp	Ser	Ala	Lys	Gly	Ile	Gln	Val	Val	Gly	Trp	Thr
				290					295				300	
Val	Asn	Thr	Phe	Asp	Glu	Lys	Ser	Tyr	Tyr	Glu	Ser	His	Leu	Gly
				305					310				315	
Ser	Ser	Tyr	Ile	Thr	Asp	Ser	Met	Val	Glu	Asp	Cys	Glu	Pro	His

	320	325	330
Phe			

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<220>
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Met Ala Ala Ala Leu Ala Leu Val Ala Gly Val Leu Ser Gly Ala			
1	5	10	15
Val Leu Pro Leu Trp Ser Ala Leu Pro Gln Tyr Lys Lys Lys Ile			
20		25	30
Thr Asp Arg Cys Phe His His Ser Glu Cys Tyr Ser Gly Cys Cys			
35		40	45
Leu Met Asp Leu Asp Ser Gly Gly Ala Phe Cys Ala Pro Arg Ala			
50		55	60
Arg Ile Thr Met Ile Cys Leu Pro Gln Trp Leu Glu Leu Phe Lys			
65		70	75
Gly Arg Asp Cys Ile Ile Phe Ile Tyr Glu Ala Pro Thr Pro Ser			
80		85	90
Leu Val Ser Ala His Asn Gln Gly Ser Tyr Gln His His Leu Pro			
95		100	105
Leu Pro Asp Gly Leu Asp Val His Ile Gln Gly Leu Asp Val Phe			
110		115	120
Pro Pro Val Pro Tyr Asp Leu Glu Glu Asp Ala Gly Trp Ser Leu			
125		130	135
Leu Pro Trp Gly His Arg Pro Trp Leu Pro Pro Thr Cys Ser Lys			
140		145	150
Ser Ser Ser			

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<400> 5

Met Glu Arg Ala Val Arg Val Glu Ser Gly Val Leu Val Gly Val			
1	5	10	15
Val Cys Leu Leu Leu Ala Cys Pro Ala Thr Ala Thr Gly Pro Glu			
20		25	30
Val Ala Gln Pro Glu Val Asp Thr Thr Leu Gly Arg Val Arg Gly			
35		40	45
Arg Gln Val Gly Val Lys Gly Thr Asp Arg Leu Val Asn Val Phe			

50	55	60												
Leu	Gly	Ile	Pro	Phe	Ala	Gln	Pro	Pro	Leu	Gly	Pro	Asp	Arg	Phe
65									70					75
Ser	Ala	Pro	His	Pro	Ala	Gln	Pro	Trp	Glu	Gly	Val	Arg	Asp	Ala
80									85					90
Ser	Thr	Ala	Pro	Pro	Met	Cys	Leu	Gln	Asp	Val	Glu	Ser	Met	Asn
95									100					105
Ser	Ser	Arg	Phe	Val	Leu	Asn	Gly	Lys	Gln	Gln	Ile	Phe	Ser	Val
110									115					120
Ser	Glu	Asp	Cys	Leu	Val	Leu	Asn	Val	Tyr	Ser	Pro	Ala	Glu	Val
125									130					135
Pro	Ala	Gly	Ser	Gly	Arg	Pro	Val	Met	Val	Trp	Val	His	Gly	Gly
140									145					150
Ala	Leu	Ile	Thr	Gly	Ala	Ala	Thr	Ser	Tyr	Asp	Gly	Ser	Ala	Leu
155									160					165
Ala	Ala	Tyr	Gly	Asp	Val	Val	Val	Val	Thr	Val	Gln	Tyr	Arg	Leu
170									175					180
Gly	Val	Leu	Gly	Phe	Phe	Ser	Thr	Gly	Asp	Glu	His	Ala	Pro	Gly
185									190					195
Asn	Gln	Gly	Phe	Leu	Asp	Val	Val	Ala	Ala	Leu	Arg	Trp	Val	Gln
200									205					210
Glu	Asn	Ile	Ala	Pro	Phe	Gly	Gly	Asp	Leu	Asn	Cys	Val	Thr	Val
215									220					225
Phe	Gly	Gly	Ser	Ala	Gly	Gly	Ser	Ile	Ile	Ser	Gly	Leu	Val	Leu
230									235					240
Ser	Pro	Val	Ala	Ala	Gly	Leu	Phe	His	Arg	Ala	Ile	Thr	Gln	Ser
245									250					255
Gly	Val	Ile	Thr	Thr	Pro	Gly	Ile	Ile	Asp	Ser	His	Pro	Trp	Pro
260									265					270
Leu	Ala	Gln	Lys	Ile	Ala	Asn	Thr	Leu	Ala	Cys	Ser	Ser	Ser	Ser
275									280					285
Pro	Ala	Glu	Met	Val	Gln	Cys	Leu	Gln	Gln	Lys	Glu	Gly	Glu	Glu
290									295					300
Leu	Val	Leu	Ser	Lys	Lys	Leu	Lys	Asn	Thr	Ile	Tyr	Pro	Leu	Thr
305									310					315
Val	Asp	Gly	Thr	Val	Phe	Pro	Lys	Ser	Pro	Lys	Glu	Leu	Leu	Lys
320									325					330
Glu	Lys	Pro	Phe	His	Ser	Val	Pro	Phe	Leu	Met	Gly	Val	Asn	Asn
335									340					345
His	Glu	Phe	Ser	Trp	Leu	Ile	Pro	Arg	Gly	Trp	Gly	Leu	Leu	Asp
350									355					360
Thr	Met	Glu	Gln	Met	Ser	Arg	Glu	Asp	Met	Leu	Ala	Ile	Ser	Thr
365									370					375
Pro	Val	Leu	Thr	Ser	Leu	Asp	Val	Pro	Pro	Glu	Met	Met	Pro	Thr
380									385					390
Val	Ile	Asp	Glu	Tyr	Leu	Gly	Ser	Asn	Ser	Asp	Ala	Gln	Ala	Lys
395									400					405
Cys	Gln	Ala	Phe	Gln	Glu	Phe	Met	Gly	Asp	Val	Phe	Ile	Asn	Val
410									415					420
Pro	Thr	Val	Ser	Phe	Ser	Arg	Tyr	Leu	Arg	Asp	Ser	Gly	Ser	Pro
425									430					435
Val	Phe	Phe	Tyr	Glu	Phe	Gln	His	Arg	Pro	Ser	Ser	Phe	Ala	Lys
440									445					450
Ile	Lys	Pro	Ala	Trp	Val	Lys	Ala	Asp	His	Gly	Ala	Glu	Gly	Ala

455	460	465
Phe Val Phe Gly Gly Pro Phe Leu Met Asp Glu Ser Ser Arg	Leu	
470	475	480
Ala Phe Pro Glu Ala Thr Glu Glu Lys Gln Leu Ser Leu Thr		
485	490	495
Met Met Ala Gln Trp Thr His Phe Ala Arg Thr Gly Asp Pro Asn		
500	505	510
Ser Lys Ala Leu Pro Pro Trp Pro Gln Phe Asn Gln Ala Glu Gln		
515	520	525
Tyr Leu Glu Ile Asn Pro Val Pro Arg Ala Gly Gln Lys Phe Arg		
530	535	540
Glu Ala Trp Met Gln Phe Trp Ser Glu Thr Leu Pro Ser Lys Ile		
545	550	555
Gln Gln Trp His Gln Lys Gln Lys Asn Arg Lys Ala Gln Glu Asp		
560	565	570
Leu		

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Gln Pro His Val Ser Arg Thr Leu Phe Leu Leu Leu Leu Ala		
20 25 30		
Ala Ser Ala Trp Gly Val Thr Leu Ser Pro Lys Asp Cys Gln Val		
35 40 45		
Phe Arg Ser Asp His Gly Ser Ser Ile Ser Cys Gln Pro Pro Ala		
50 55 60		
Glu Ile Pro Gly Tyr Leu Pro Ala Asp Thr Val His Leu Ala Val		
65 70 75		
Glu Phe Phe Asn Leu Thr His Leu Pro Ala Asn Leu Leu Gln Gly		
80 85 90		
Ala Ser Lys Leu Gln Glu Leu His Leu Ser Ser Asn Gly Leu Glu		
95 100 105		
Ser Leu Ser Pro Glu Phe Leu Arg Pro Val Pro Gln Leu Arg Val		
110 115 120		
Leu Asp Leu Thr Arg Asn Ala Leu Thr Gly Leu Pro Pro Gly Leu		
125 130 135		
Phe Gln Ala Ser Ala Thr Leu Asp Thr Leu Val Leu Lys Glu Asn		
140 145 150		
Gln Leu Glu Val Leu Glu Val Ser Trp Leu His Gly Leu Lys Ala		
155 160 165		
Leu Gly His Leu Asp Leu Ser Gly Asn Arg Leu Arg Lys Leu Pro		
170 175 180		
Pro Gly Leu Leu Ala Asn Phe Thr Leu Leu Arg Thr Leu Asp Leu		
185 190 195		

Gly Glu Asn Gln Leu Glu Thr Leu Pro Pro Asp Leu Leu Arg Gly
 200 205 210
 Pro Leu Gln Leu Glu Arg Leu His Leu Glu Gly Asn Lys Leu Gln
 215 220 225
 Val Leu Gly Lys Asp Leu Leu Leu Pro Gln Pro Asp Leu Arg Tyr
 230 235 240
 Leu Phe Leu Asn Gly Asn Lys Leu Ala Arg Val Ala Ala Gly Ala
 245 250 255
 Phe Gln Gly Leu Arg Gln Leu Asp Met Leu Asp Leu Ser Asn Asn
 260 265 270
 Ser Leu Ala Ser Val Pro Glu Gly Leu Trp Ala Ser Leu Gly Gln
 275 280 285
 Pro Asn Trp Asp Met Arg Asp Gly Phe Asp Ile Ser Gly Asn Pro
 290 295 300
 Trp Ile Cys Asp Gln Asn Leu Ser Asp Leu Tyr Arg Trp Leu Gln
 305 310 315
 Ala Gln Lys Asp Lys Met Phe Ser Gln Asn Asp Thr Arg Cys Ala
 320 325 330
 Gly Pro Glu Ala Val Lys Gly Gln Thr Leu Leu Ala Val Ala Lys
 335 340 345
 Ser Gln

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Ser	Val	Ser	Ser	Ala	Asp	Ser	Thr	Glu	Lys	Ser	Ala	Ser	Gly	Ala
														30
Gly	Thr	Arg	Asn	Leu	Pro	Phe	Gln	Phe	Cys	Leu	Arg	Gln	Ala	Leu
														45
Arg	Met	Lys	Ala	Ala	Gly	Ile	Leu	Thr	Leu	Ile	Gly	Cys	Leu	Val
														60
Thr	Gly	Ala	Glu	Ser	Lys	Ile	Tyr	Thr	Arg	Cys	Lys	Leu	Ala	Lys
														75
Ile	Phe	Ser	Arg	Ala	Gly	Leu	Asp	Asn	Tyr	Trp	Gly	Phe	Ser	Leu
														90
Gly	Asn	Trp	Ile	Cys	Met	Ala	Tyr	Tyr	Glu	Ser	Gly	Tyr	Asn	Thr
														105
Thr	Ala	Pro	Thr	Val	Leu	Asp	Asp	Gly	Ser	Ile	Asp	Tyr	Gly	Ile
														120
Phe	Gln	Ile	Asn	Thr	Phe	Ala	Trp	Cys	Arg	Arg	Gly	Lys	Leu	Lys
														135
Glu	Asn	Asn	His	Cys	His	Val	Ala	Cys	Ser	Ala	Leu	Ile	Thr	Asp
														150
Asp	Leu	Thr	Asp	Ala	Ile	Ile	Cys	Ala	Arg	Lys	Ile	Val	Lys	Glu

155	160	165
Thr Gln Gly Met Asn Tyr Trp Gln Gly	Trp Lys Lys His Cys Glu	
170	175	180
Gly Arg Asp Leu Ser Glu Trp Lys Lys	Gly Cys Glu Val Ser	
185	190	

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<220>
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Met Ala Trp Gln Gly Trp Pro Ala Ala Trp Gln Trp Val Ala Gly			
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Cys Trp Leu Leu Leu Val Leu Val Leu Val Leu Leu Val Ser Pro			
20	25	30	
Arg Gly Cys Arg Ala Arg Arg Gly Leu Arg Gly Leu Leu Met Ala			
35	40	45	
His Ser Gln Arg Leu Leu Phe Arg Ile Gly Tyr Ser Leu Tyr Thr			
50	55	60	
Arg Thr Trp Leu Gly Tyr Leu Phe Tyr Arg Gln Gln Leu Arg Arg			
65	70	75	
Ala Arg Asn Arg Tyr Pro Lys Gly His Ser Lys Thr Gln Thr Arg			
80	85	90	
Leu Phe Asn Gly Val Lys Val Leu Pro Ile Pro Val Leu Ser Asp			
95	100	105	
Asn Tyr Ser Tyr Leu Ile Ile Asp Thr Gln Ala Gln Leu Ala Val			
110	115	120	
Ala Val Asp Pro Ser Asp Pro Arg Ala Val Gln Ala Ser Ile Glu			
125	130	135	
Lys Glu Gly Val Thr Leu Val Ala Ile Leu Cys Thr His Lys His			
140	145	150	
Trp Asp His Ser Gly Gly Asn Arg Asp Leu Ser Arg Arg His Arg			
155	160	165	
Asp Cys Arg Val Tyr Gly Ser Pro Gln Asp Gly Ile Pro Tyr Leu			
170	175	180	
Thr His Pro Leu Cys His Gln Asp Val Val Ser Val Gly Arg Leu			
185	190	195	
Gln Ile Arg Ala Leu Ala Thr Pro Gly His Thr Gln Gly His Leu			
200	205	210	
Val Tyr Leu Leu Asp Gly Glu Pro Tyr Lys Gly Pro Ser Cys Leu			
215	220	225	
Phe Ser Gly Asp Leu Leu Phe Leu Ser Gly Cys Gly Arg Thr Phe			
230	235	240	
Glu Gly Asn Ala Glu Thr Met Leu Ser Ser Leu Asp Thr Val Leu			
245	250	255	
Gly Leu Gly Asp Asp Thr Leu Leu Trp Pro Gly His Glu Tyr Ala			
260	265	270	
Glu Glu Asn Leu Gly Phe Ala Gly Val Val Glu Pro Glu Asn Leu			
275	280	285	

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Ala	Arg	Glu	Arg	Lys	Met	Gln	Trp	Val	Gln	Arg	Gln	Arg	Leu	Glu
					290				295					300
Arg	Lys	Gly	Thr	Cys	Pro	Ser	Thr	Leu	Gly	Glu	Glu	Arg	Ser	Tyr
					305				310					315
Asn	Pro	Phe	Leu	Arg	Thr	His	Cys	Leu	Ala	Leu	Gln	Glu	Ala	Leu
					320				325					330
Gly	Pro	Gly	Pro	Gly	Pro	Thr	Gly	Asp	Asp	Asp	Tyr	Ser	Arg	Ala
					335				340					345
Gln	Leu	Leu	Glu	Glu	Leu	Arg	Arg	Leu	Lys	Asp	Met	His	Lys	Ser
					350				355					360

Lys

<210> 9
<211> 306
<212> PRT
<213> Homo sapiens

<220>
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<400> 9

Met	Leu	Arg	Trp	Thr	Arg	Ala	Trp	Arg	Leu	Pro	Arg	Glu	Gly	Leu
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Gly	Pro	His	Gly	Pro	Ser	Phe	Ala	Arg	Val	Pro	Val	Ala	Pro	Ser
						20			25					30
Ser	Ser	Ser	Gly	Gly	Arg	Gly	Gly	Ala	Glu	Pro	Arg	Pro	Leu	Pro
						35			40					45
Leu	Ser	Tyr	Arg	Leu	Leu	Asp	Gly	Glu	Ala	Ala	Leu	Pro	Ala	Val
						50			55					60
Val	Phe	Leu	His	Gly	Leu	Phe	Gly	Ser	Lys	Thr	Asn	Phe	Asn	Ser
						65			70					75
Ile	Ala	Lys	Ile	Leu	Ala	Gln	Gln	Thr	Gly	Arg	Arg	Val	Leu	Thr
						80			85					90
Val	Asp	Ala	Arg	Asn	His	Gly	Asp	Ser	Pro	His	Ser	Pro	Asp	Met
						95			100					105
Ser	Tyr	Glu	Ile	Met	Ser	Gln	Asp	Leu	Gln	Asp	Leu	Leu	Pro	Gln
						110			115					120
Leu	Gly	Leu	Val	Pro	Cys	Val	Val	Val	Gly	His	Ser	Met	Gly	Gly
						125			130					135
Lys	Thr	Ala	Met	Leu	Leu	Ala	Leu	Gln	Arg	Pro	Glu	Leu	Val	Glu
						140			145					150
Arg	Leu	Ile	Ala	Val	Asp	Ile	Ser	Pro	Val	Glu	Ser	Thr	Gly	Val
						155			160					165
Ser	His	Phe	Ala	Thr	Tyr	Val	Ala	Ala	Met	Arg	Ala	Ile	Asn	Ile
						170			175					180
Ala	Asp	Glu	Leu	Pro	Arg	Ser	Arg	Ala	Arg	Lys	Leu	Ala	Asp	Glu
						185			190					195
Gln	Leu	Ser	Ser	Val	Ile	Gln	Asp	Met	Ala	Val	Arg	Gln	His	Leu
						200			205					210
Leu	Thr	Asn	Leu	Val	Glu	Val	Asp	Gly	Arg	Phe	Val	Trp	Arg	Val
						215			220					225
Asn	Leu	Asp	Ala	Leu	Thr	Gln	His	Leu	Asp	Lys	Ile	Leu	Ala	Phe

230	235	240
Pro Gln Arg Gln Glu Ser Tyr Leu Gly	Pro Thr Leu Phe Leu Leu	
245	250	255
Gly Gly Asn Ser Gln Phe Val His Pro	Ser His His Pro Glu Ile	
260	265	270
Met Arg Leu Phe Pro Arg Ala Gln Met	Gln Thr Val Pro Asn Ala	
275	280	285
Gly His Trp Ile His Ala Asp Arg Pro	Gln Asp Phe Ile Ala Ala	
290	295	300
Ile Arg Gly Phe Leu Val		
305		

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<211> 483

<212> PRT

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<220>

<221> misc_feature

<223> Incyte ID No: 2447520CD1

<400> 10

Met Ser Asn Lys Leu Leu Ser Pro His Pro His Ser Val Val Leu			
1	5	10	15
Arg Ser Glu Phe Lys Met Ala Ser Ser Pro Ala Val Leu Arg Ala			
20		25	30
Ser Arg Leu Tyr Gln Trp Ser Leu Lys Ser Ser Ala Gln Phe Leu			
35		40	45
Gly Ser Pro Gln Leu Arg Gln Val Gly Gln Ile Ile Arg Val Pro			
50		55	60
Ala Arg Met Ala Ala Thr Leu Ile Leu Glu Pro Ala Gly Arg Cys			
65		70	75
Cys Trp Asp Glu Pro Val Arg Ile Ala Val Arg Gly Leu Ala Pro			
80		85	90
Glu Gln Pro Val Thr Leu Arg Ala Ser Leu Arg Asp Glu Lys Gly			
95		100	105
Ala Leu Phe Gln Ala His Ala Arg Tyr Arg Ala Asp Thr Leu Gly			
110		115	120
Glu Leu Asp Leu Glu Arg Ala Pro Ala Leu Gly Gly Ser Phe Ala			
125		130	135
Gly Leu Glu Pro Met Gly Leu Leu Trp Ala Leu Glu Pro Glu Lys			
140		145	150
Pro Leu Val Arg Leu Val Lys Arg Asp Val Arg Thr Pro Leu Ala			
155		160	165
Val Glu Leu Glu Val Leu Asp Gly His Asp Pro Asp Pro Gly Arg			
170		175	180
Leu Leu Cys Gln Thr Arg His Glu Arg Tyr Phe Leu Pro Pro Gly			
185		190	195
Val Arg Arg Glu Pro Val Arg Val Gly Arg Val Arg Gly Thr Leu			
200		205	210
Phe Leu Pro Pro Glu Pro Gly Pro Phe Pro Gly Ile Val Asp Met			
215		220	225
Phe Gly Thr Gly Gly Leu Leu Glu Tyr Arg Ala Ser Leu Leu			
230		235	240

Ala Gly Lys Gly Phe Ala Val Met Ala Leu Ala Tyr Tyr Asn Tyr
 245 250 255
 Glu Asp Leu Pro Lys Thr Met Glu Thr Leu His Leu Glu Tyr Phe
 260 265 270
 Glu Glu Ala Met Asn Tyr Leu Leu Ser His Pro Glu Val Lys Gly
 275 280 285
 Pro Gly Val Gly Leu Leu Gly Ile Ser Lys Gly Gly Glu Leu Cys
 290 295 300
 Leu Ser Met Ala Ser Phe Leu Lys Gly Ile Thr Ala Ala Val Val
 305 310 315
 Ile Asn Gly Ser Val Ala Asn Val Gly Gly Thr Leu Arg Tyr Lys
 320 325 330
 Gly Glu Thr Leu Pro Pro Val Gly Val Asn Arg Asn Arg Ile Lys
 335 340 345
 Val Thr Lys Asp Gly Tyr Ala Asp Ile Val Asp Val Leu Asn Ser
 350 355 360
 Pro Leu Glu Gly Pro Asp Gln Lys Ser Phe Ile Pro Val Glu Arg
 365 370 375
 Ala Glu Ser Thr Phe Leu Phe Leu Val Gly Gln Asp Asp His Asn
 380 385 390
 Trp Lys Ser Glu Phe Tyr Ala Asn Glu Ala Cys Lys Arg Leu Gln
 395 400 405
 Ala His Gly Arg Arg Lys Pro Gln Ile Ile Cys Tyr Pro Glu Thr
 410 415 420
 Gly His Tyr Ile Glu Pro Pro Tyr Phe Pro Leu Cys Arg Ala Ser
 425 430 435
 Leu His Ala Leu Val Gly Ser Pro Ile Ile Trp Gly Gly Glu Pro
 440 445 450
 Arg Ala His Ala Met Ala Gln Val Asp Ala Trp Lys Gln Leu Gln
 455 460 465
 Thr Phe Phe His Lys His Leu Gly Gly His Glu Gly Thr Ile Pro
 470 475 480
 Ser Lys Val

<210> 11
 <211> 144
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2481345CD1

<400> 11
 Met Leu Leu Leu Trp Val Ser Val Val Ala Ala Leu Ala Leu Ala
 1 5 10 15
 Val Leu Ala Pro Gly Ala Gly Glu Gln Arg Arg Arg Ala Ala Lys
 20 25 30
 Ala Pro Asn Val Val Leu Val Val Ser Asp Ser Phe Asp Gly Arg
 35 40 45
 Leu Thr Phe His Pro Gly Ser Gln Val Val Lys Leu Pro Phe Ile
 50 55 60
 Asn Phe Met Lys Thr Arg Gly Thr Ser Phe Leu Asn Ala Tyr Thr

65	70	75
Asn Ser Pro Ile Cys Cys Pro Ser Arg Ala Ala Met Trp Ser Gly		
80	85	90
Leu Phe Thr His Leu Thr Glu Ser Trp Asn Asn Phe Lys Gly Leu		
95	100	105
Asp Pro Asn Tyr Thr Trp Met Asp Val Met Glu Arg His Gly		
110	115	120
Tyr Arg Thr Gln Lys Phe Gly Lys Leu Asp Tyr Thr Ser Gly His		
125	130	135
His Ser Ile Ser Asn Arg Val Glu Ala		
140		

<210> 12
<211> 180
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2484020CD1

<400> 12			
Met Met Lys Phe Lys Pro Asn Gln Thr Arg Thr Tyr Asp Arg Glu			
1	5	10	15
Gly Phe Lys Lys Arg Ala Ala Cys Leu Cys Phe Arg Ser Glu Gln			
20	25	30	
Glu Asp Glu Val Leu Leu Val Ser Ser Arg Tyr Pro Asp Gln			
35	40	45	
Trp Ile Val Pro Gly Gly Met Glu Pro Glu Glu Glu Pro Gly			
50	55	60	
Gly Ala Ala Val Arg Glu Val Tyr Glu Glu Ala Gly Val Lys Gly			
65	70	75	
Lys Leu Gly Arg Leu Leu Gly Ile Phe Glu Asn Gln Asp Arg Lys			
80	85	90	
His Arg Thr Tyr Val Tyr Val Leu Thr Val Thr Glu Ile Leu Glu			
95	100	105	
Asp Trp Glu Asp Ser Val Asn Ile Gly Arg Lys Arg Glu Trp Phe			
110	115	120	
Lys Val Glu Asp Ala Ile Lys Val Leu Gln Cys His Lys Pro Val			
125	130	135	
His Ala Glu Tyr Leu Glu Lys Leu Lys Leu Gly Cys Ser Pro Ala			
140	145	150	
Asn Gly Asn Ser Thr Val Pro Ser Leu Pro Asp Asn Asn Ala Leu			
155	160	165	
Phe Val Thr Ala Ala Gln Thr Ser Gly Leu Pro Ser Ser Val Arg			
170	175	180	

<210> 13
<211> 375
<212> PRT
<213> Homo sapiens

<220>

<221> misc_feature
 <223> Incyte ID No: 2862528CD1

<400> 13

Met	Ala	Arg	Pro	Gly	Leu	Ile	His	Ser	Ala	Pro	Gly	Leu	Pro	Asp
1				5					10					15
Thr	Cys	Ala	Leu	Leu	Gln	Pro	Pro	Ala	Ala	Ser	Ala	Ala	Ala	Ala
					20					25				30
Pro	Ser	Met	Ser	Gly	Pro	Asp	Val	Glu	Thr	Pro	Ser	Ala	Ile	Gln
					35				40					45
Ile	Cys	Arg	Ile	Met	Arg	Pro	Asp	Asp	Ala	Asn	Val	Ala	Gly	Asn
					50				55					60
Val	His	Gly	Gly	Thr	Ile	Leu	Lys	Met	Ile	Glu	Glu	Ala	Gly	Ala
					65				70					75
Ile	Ile	Ser	Thr	Arg	His	Cys	Asn	Ser	Gln	Asn	Gly	Glu	Arg	Cys
					80				85					90
Val	Ala	Ala	Leu	Ala	Arg	Val	Glu	Arg	Thr	Asp	Phe	Leu	Ser	Pro
					95				100					105
Met	Cys	Ile	Gly	Glu	Val	Ala	His	Val	Ser	Ala	Glu	Ile	Thr	Tyr
					110				115					120
Thr	Ser	Lys	His	Ser	Val	Glu	Val	Gln	Val	Asn	Val	Met	Ser	Glu
					125				130					135
Asn	Ile	Leu	Thr	Gly	Ala	Lys	Lys	Leu	Thr	Asn	Lys	Ala	Thr	Leu
					140				145					150
Trp	Tyr	Val	Pro	Leu	Ser	Leu	Lys	Asn	Val	Asp	Lys	Val	Leu	Glu
					155				160					165
Val	Pro	Pro	Val	Val	Tyr	Ser	Arg	Gln	Glu	Gln	Glu	Glu	Glu	Gly
					170				175					180
Arg	Lys	Arg	Tyr	Glu	Ala	Gln	Lys	Leu	Glu	Arg	Met	Glu	Thr	Lys
					185				190					195
Trp	Arg	Asn	Gly	Asp	Ile	Val	Gln	Pro	Val	Leu	Asn	Pro	Gly	Val
					200				205					210
Thr	Met	Lys	Leu	Met	Asp	Glu	Val	Ala	Gly	Ile	Val	Ala	Ala	Arg
					215				220					225
His	Cys	Lys	Thr	Asn	Ile	Val	Thr	Ala	Ser	Val	Asp	Ala	Ile	Asn
					230				235					240
Phe	His	Asp	Lys	Ile	Arg	Lys	Gly	Cys	Val	Ile	Thr	Ile	Ser	Gly
					245				250					255
Arg	Met	Thr	Phe	Thr	Ser	Asn	Lys	Ser	Met	Glu	Ile	Glu	Val	Leu
					260				265					270
Val	Asp	Ala	Asp	Pro	Val	Val	Asp	Ser	Ser	Gln	Lys	Arg	Tyr	Arg
					275				280					285
Ala	Ala	Ser	Ala	Phe	Phe	Thr	Tyr	Val	Ser	Leu	Ser	Gln	Glu	Gly
					290				295					300
Arg	Ser	Leu	Pro	Val	Pro	Gln	Leu	Val	Pro	Glu	Thr	Glu	Asp	Glu
					305				310					315
Lys	Lys	Arg	Phe	Glu	Glu	Gly	Lys	Gly	Arg	Tyr	Leu	Gln	Met	Lys
					320				325					330
Ala	Asn	Asp	Arg	Ala	Thr	Arg	Ser	Leu	Ser	Pro	Arg	Leu	Pro	Pro
					335				340					345
Pro	Ala	Thr	Gly	Ala	Ser	Ser	Ser	His	Gly	Asn	Gly	Pro	Ser	Val
					350				355					360
Gln	Ser	Leu	Arg	Ser	Ser	Pro	Leu	Gly	Gln	Lys	Pro	Asn	Ser	His
					365				370					375

<210> 14
 <211> 637
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3200650CD1

<400> 14

Met	Thr	Thr	Trp	Ser	Leu	Arg	Arg	Arg	Pro	Ala	Arg	Thr	Leu	Gly
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Leu	Leu	Leu	Leu	Val	Val	Leu	Gly	Phe	Leu	Val	Leu	Arg	Arg	Leu
										25				30
Asp	Trp	Ser	Thr	Leu	Val	Pro	Leu	Arg	Leu	Arg	His	Arg	Gln	Leu
										40				45
Gly	Leu	Gln	Ala	Lys	Gly	Trp	Asn	Phe	Met	Leu	Glu	Asp	Ser	Thr
					50					55				60
Phe	Trp	Ile	Phe	Gly	Gly	Ser	Ile	His	Tyr	Phe	Arg	Val	Pro	Arg
					65					70				75
Glu	Tyr	Trp	Arg	Asp	Arg	Leu	Leu	Lys	Met	Lys	Ala	Cys	Gly	Leu
					80					85				90
Asn	Thr	Leu	Thr	Thr	Tyr	Val	Pro	Trp	Asn	Leu	His	Glu	Pro	Glu
					95					100				105
Arg	Gly	Lys	Phe	Asp	Phe	Leu	Trp	Glu	Thr	Trp	Thr	Leu	Lys	Ala
					110					115				120
Phe	Val	Leu	Met	Ala	Ala	Glu	Ile	Gly	Leu	Trp	Val	Ile	Leu	Arg
					125					130				135
Pro	Gly	Pro	Tyr	Ile	Cys	Ser	Glu	Met	Asp	Leu	Gly	Gly	Leu	Pro
					140					145				150
Ser	Trp	Leu	Leu	Gln	Asp	Pro	Gly	Met	Arg	Leu	Arg	Thr	Thr	Tyr
					155					160				165
Lys	Gly	Phe	Thr	Glu	Ala	Val	Asp	Leu	Tyr	Phe	Asp	His	Leu	Met
					170					175				180
Ser	Arg	Val	Val	Pro	Leu	Gln	Tyr	Lys	Arg	Gly	Gly	Pro	Ile	Ile
					185					190				195
Ala	Val	Gln	Val	Glu	Asn	Glu	Tyr	Gly	Ser	Tyr	Asn	Lys	Asp	Pro
					200					205				210
Ala	Tyr	Met	Pro	Tyr	Val	Lys	Ala	Leu	Glu	Asp	Arg	Gly	Ile	
					215					220				225
Val	Glu	Leu	Leu	Leu	Thr	Ser	Asp	Asn	Lys	Asp	Gly	Leu	Ser	Lys
					230					235				240
Gly	Ile	Val	Gln	Gly	Val	Leu	Ala	Thr	Ile	Asn	Leu	Gln	Ser	Thr
					245					250				255
His	Glu	Leu	Gln	Leu	Leu	Thr	Thr	Phe	Leu	Phe	Asn	Val	Gln	Gly
					260					265				270
Thr	Gln	Pro	Lys	Met	Val	Met	Glu	Tyr	Trp	Thr	Gly	Trp	Phe	Asp
					275					280				285
Ser	Trp	Gly	Gly	Pro	His	Asn	Ile	Leu	Asp	Ser	Ser	Glu	Val	Leu
					290					295				300
Lys	Thr	Val	Ser	Ala	Ile	Val	Asp	Ala	Gly	Ser	Ser	Ile	Asn	Leu
					305					310				315

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Tyr Met Phe His Gly Gly Thr Asn Phe Gly Phe Met Asn Gly Ala
320 325 330
Met His Phe His Asp Tyr Lys Ser Asp Val Thr Ser Tyr Asp Tyr
335 340 345
Asp Ala Val Leu Thr Glu Ala Gly Asp Tyr Thr Ala Lys Tyr Met
350 355 360
Lys Leu Arg Asp Phe Phe Gly Ser Ile Ser Gly Ile Pro Leu Pro
365 370 375
Pro Pro Pro Asp Leu Leu Pro Lys Met Pro Tyr Glu Pro Leu Thr
380 385 390
Pro Val Leu Tyr Leu Ser Leu Trp Asp Ala Leu Lys Tyr Leu Gly
395 400 405
Glu Pro Ile Lys Ser Glu Lys Pro Ile Asn Met Glu Asn Leu Pro
410 415 420
Val Asn Gly Gly Asn Gly Gln Ser Phe Gly Tyr Ile Leu Tyr Glu
425 430 435
Thr Ser Ile Thr Ser Ser Gly Ile Leu Ser Gly His Val His Asp
440 445 450
Arg Gly Gln Val Phe Val Asn Thr Val Ser Ile Gly Phe Leu Asp
455 460 465
Tyr Lys Thr Thr Lys Ile Ala Val Pro Leu Ile Gln Gly Tyr Thr
470 475 480
Val Leu Arg Ile Leu Val Glu Asn Arg Gly Arg Val Asn Tyr Gly
485 490 495
Glu Asn Ile Asp Asp Gln Arg Lys Gly Leu Ile Gly Asn Leu Tyr
500 505 510
Leu Asn Asp Ser Pro Leu Lys Asn Phe Arg Ile Tyr Ser Leu Asp
515 520 525
Met Lys Lys Ser Phe Phe Gln Arg Phe Gly Leu Asp Lys Trp Ser
530 535 540
Ser Leu Pro Glu Thr Pro Thr Leu Pro Ala Phe Phe Leu Gly Ser
545 550 555
Leu Ser Ile Ser Ser Thr Pro Cys Asp Thr Phe Leu Lys Leu Glu
560 565 570
Gly Trp Glu Lys Gly Val Val Phe Ile Asn Gly Gln Asn Leu Gly
575 580 585
Arg Tyr Trp Asn Ile Gly Pro Gln Lys Thr Leu Tyr Leu Pro Gly
590 595 600
Pro Trp Leu Ser Ser Gly Ile Asn Gln Val Ile Val Phe Glu Glu
605 610 615
Thr Met Ala Gly Pro Ala Leu Gln Phe Thr Glu Thr Pro His Leu
620 625 630
Gly Arg Asn Gln Tyr Ile Lys
635

<210> 15
<211> 314
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4107621CD1

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<400> 15

Met Ser Glu Asn Ala Ala Pro Gly Leu Ile Ser Glu Leu Lys Leu
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Ala Val Pro Trp Gly His Ile Ala Ala Lys Ala Trp Gly Ser Leu
20 25 30
Gln Gly Pro Pro Val Leu Cys Leu His Gly Trp Leu Asp Asn Ala
35 40 45
Ser Ser Phe Asp Arg Leu Ile Pro Leu Leu Pro Gln Asp Phe Tyr
50 55 60
Tyr Val Ala Met Asp Phe Gly Gly His Gly Leu Ser Ser His Tyr
65 70 75
Ser Pro Gly Val Pro Tyr Tyr Leu Gln Thr Phe Val Ser Glu Ile
80 85 90
Arg Arg Val Val Ala Ala Leu Lys Trp Asn Arg Phe Ser Ile Leu
95 100 105
Gly His Ser Phe Gly Gly Val Val Gly Gly Met Phe Phe Cys Thr
110 115 120
Phe Pro Glu Met Val Asp Lys Leu Ile Leu Leu Asp Thr Pro Leu
125 130 135
Phe Leu Leu Glu Ser Asp Glu Met Glu Asn Leu Leu Thr Tyr Lys
140 145 150
Arg Arg Ala Ile Glu His Val Leu Gln Val Glu Ala Ser Gln Glu
155 160 165
Pro Ser His Val Phe Ser Leu Lys Gln Leu Leu Gln Arg Leu Leu
170 175 180
Lys Ser Asn Ser His Leu Ser Glu Glu Cys Gly Glu Leu Leu Leu
185 190 195
Gln Arg Gly Thr Thr Lys Val Ala Thr Gly Leu Val Leu Asn Arg
200 205 210
Asp Gln Arg Leu Ala Trp Ala Glu Asn Ser Ile Asp Phe Ile Ser
215 220 225
Arg Glu Leu Cys Ala His Ser Ile Arg Lys Leu Gln Ala His Val
230 235 240
Leu Leu Ile Lys Ala Val His Gly Tyr Phe Asp Ser Arg Gln Asn
245 250 255
Tyr Ser Glu Lys Glu Ser Leu Ser Phe Met Ile Asp Thr Met Lys
260 265 270
Ser Thr Leu Lys Glu Gln Phe Gln Phe Val Glu Val Pro Gly Asn
275 280 285
His Cys Val His Met Ser Glu Pro Gln His Val Ala Ser Ile Ile
290 295 300
Ser Ser Phe Leu Gln Cys Thr His Met Leu Pro Ala Gln Leu
305 310

<210> 16

<211> 448

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4661133CD1

<400> 16

Met	Arg	Arg	Ala	Ala	Leu	Arg	Leu	Cys	Ala	Leu	Gly	Lys	Gly	Gln
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Leu	Thr	Pro	Gly	Arg	Gly	Leu	Thr	Gln	Gly	Pro	Gln	Asn	Pro	Lys
					20				25					30
Lys	Gln	Gly	Ile	Phe	His	Ile	His	Glu	Ala	Cys	Ser	Ser	Ile	His
					35				40					45
Val	Asn	His	Val	Arg	Asp	Lys	Leu	Arg	Glu	Ile	Val	Gly	Ala	Ser
					50				55					60
Thr	Asn	Trp	Arg	Asp	His	Val	Lys	Ala	Met	Glu	Glu	Arg	Lys	Leu
					65				70					75
Leu	His	Ser	Phe	Leu	Ala	Lys	Ser	Gln	Asp	Gly	Leu	Pro	Pro	Arg
					80				85					90
Arg	Met	Lys	Asp	Ser	Tyr	Ile	Glu	Val	Leu	Leu	Pro	Leu	Gly	Ser
					95				100					105
Glu	Pro	Glu	Leu	Arg	Glu	Lys	Tyr	Leu	Thr	Val	Gln	Asn	Thr	Val
					110				115					120
Arg	Phe	Gly	Arg	Ile	Leu	Glu	Asp	Leu	Asp	Ser	Leu	Gly	Val	Leu
					125				130					135
Ile	Cys	Tyr	Met	His	Asn	Lys	Ile	His	Ser	Ala	Lys	Met	Ser	Pro
					140				145					150
Leu	Ser	Ile	Val	Thr	Ala	Leu	Val	Asp	Lys	Ile	Asp	Met	Cys	Lys
					155				160					165
Lys	Ser	Leu	Ser	Pro	Glu	Gln	Asp	Ile	Lys	Phe	Ser	Gly	His	Val
					170				175					180
Ser	Trp	Val	Gly	Lys	Thr	Ser	Met	Glu	Val	Lys	Met	Gln	Met	Phe
					185				190					195
Gln	Leu	His	Gly	Asp	Glu	Phe	Cys	Pro	Val	Leu	Asp	Ala	Thr	Phe
					200				205					210
Val	Met	Val	Ala	Arg	Asp	Ser	Glu	Asn	Lys	Gly	Pro	Ala	Phe	Val
					215				220					225
Asn	Pro	Leu	Ile	Pro	Glu	Ser	Pro	Glu	Glu	Glu	Leu	Phe	Arg	
					230				235					240
Gln	Gly	Glu	Leu	Asn	Lys	Gly	Arg	Arg	Ile	Ala	Phe	Ser	Ser	Thr
					245				250					255
Ser	Leu	Leu	Lys	Met	Ala	Pro	Ser	Ala	Glu	Glu	Arg	Thr	Thr	Ile
					260				265					270
His	Glu	Met	Phe	Leu	Ser	Thr	Leu	Asp	Pro	Lys	Thr	Ile	Ser	Phe
					275				280					285
Arg	Ser	Arg	Val	Leu	Pro	Ser	Asn	Ala	Val	Trp	Met	Glu	Asn	Ser
					290				295					300
Lys	Leu	Lys	Ser	Leu	Glu	Ile	Cys	His	Pro	Gln	Glu	Arg	Asn	Ile
					305				310					315
Phe	Asn	Arg	Ile	Phe	Gly	Gly	Phe	Leu	Met	Arg	Lys	Ala	Tyr	Glu
					320				325					330
Leu	Ala	Trp	Ala	Thr	Ala	Cys	Ser	Phe	Gly	Gly	Ser	Arg	Pro	Phe
					335				340					345
Val	Val	Ala	Val	Asp	Asp	Ile	Met	Phe	Gln	Lys	Pro	Val	Glu	Val
					350				355					360
Gly	Ser	Leu	Leu	Phe	Leu	Ser	Ser	Gln	Val	Cys	Phe	Thr	Gln	Asn
					365				370					375
Asn	Tyr	Ile	Gln	Val	Arg	Val	His	Ser	Glu	Val	Ala	Ser	Leu	Gln
					380				385					390
Glu	Lys	Gln	His	Thr	Thr	Thr	Asn	Val	Phe	His	Phe	Thr	Phe	Met
					395				400					405

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Ser Glu Lys Glu Val Pro Leu Val Phe Pro Lys Thr Tyr Gly Glu
410 415 420
Ser Met Leu Tyr Leu Asp Gly Gln Arg His Phe Asn Ser Met Ser
425 430 435
Gly Pro Ala Thr Leu Arg Lys Asp Tyr Leu Val Glu Pro
440 445

<210> 17
<211> 723
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2293764CB1

<400> 17
gcagcaacag agttgcaggt gtaaaataac ggaaaggcgg gatgcgtggc taaattgctc 60
tgcgtgcaca aagagtagga gagccagag ttccagaatg cccctaattc cgaacaccac 120
agggtgagtc tggagcaagt cacctgggg ggcttacagg tgccataatg aaggcctggg 180
gcactgtggt agtgaccttg gccacgctga tgggtgtcac tgtggatgcc aagatctatg 240
aactctgcga gctggcggca agactggaga gagcagggct gaacggctac aagggctacg 300
gctgtggaga ctggctgtgc atggctcatt atgagagtg ctttgacacc gccttcgtgg 360
accacaatcc tcatggcage agtgaatatg gcattttcca actgaattct gcctgggtgg 420
gtgacaatgg cattacaccc accaagaacc tctgccacat ggattgtcat gacctgctca 480
atcgccatat tctggatgac atcaggtgtc ccaagcagat tggatccatc cagaatgggc 540
tttctgcctg gacttcttgg aggctacact gttctggcca tgatttatct gaatggctca 600
aggggtgtga tatgcatgtg aaaattgatc caaaaattca tccatgactc agattcgaag 660
agacagattt tatcttcctt tcatttcctc atattgtcac ttataataag gatggtaactc 720
gtc 723

<210> 18
<211> 1228
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 949738CB1

<400> 18
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aggaccccg ctaaaagcca gagctcccag tccccgaggc ttgaagacgg ggactccctt 120
ctccaccaac tctgtcctcg ggggggtggg gccccagccg agatcacagc gcgacaggag 180
tgggggtggc cgctggagac aggtgaagaa acaagaaaac taagaaatcc gagegggtgg 240
agggggagtc tggatggatg ggtggggac gcccggggag gggctgggcc gctgctccca 300
tgcctgtatc cggggagtc cagagagcct ggcgtcgggg gaaggtgcgg gggctggcc 360
tcccgctctg gatctggcca aagctcaaag ggagcacggg gtgctggag gtaaaactgag 420
gcaacgactg gggctacagc tgctagaact gccacctgag gagtcattgc cgctgggacc 480
gctgcttggc gacacggccg tgatccaagg ggacacggcc ctaatcacgc ggccctggag 540
ccccgctcg aggccagagg tcgatggagt ccgcaaagcc ctgcaagacc tggggctccg 600
aattgtggaa ataggagacg agaacgcgac gctggatgcc actgacgttc tcttcaccgg 660
ccgggagttt ttctgtggcc tctccaaatg gaccaatcac cgaggagctg agatcgtggc 720
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<210> 19
<211> 2155
<212> DNA
<213> Homo sapie
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<220>
<221> misc_feature
<223> Incyte ID No: 1297034CB1

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tttctcttc ctgctgctag tgctgctgct ggtgacgccc agcccggtca atgcctgcct 180
cctcaccggc agcctcttcg ttctactgcg cgtttcagc tttgagccgg tgcctcttg 240
cagggccctg caggtgctca agccccggg cccgatttct gccatcgccc accgtggcgg 300
cagccacgac ggcggccgaga acacgctggc ggccattcgg cagggcagcta agaatggagc 360
aacaggcgtg gagttggaca ttgagttac ttctgacggg attctgtct taatgcacga 420
taacacagta gataggacga ctgatggac tgggcgattt gttgatttga catttgaaca 480
aatttaggaag ctgaatctcg cagcaaacca cagactcagg aatgatttcc ctgtatgaaaa 540
gatccctacc ctaagggaag ctgttgcaga gtgcctaaac cataacctca caatcttctt 600
tgcgtcaaa ggcgcattgcac acaaggctac tgaggctcta aagaaaatgt atatgaaatt 660
tcctcaactg tataataata gtgtgtctg ttctttctt ccagaagtt tctacaagat 720
gagacaaaca gatcgggatg taataacagc attaactcac agaccttggc gcctaagcca 780
tacaggagat gggaaaccac gctatgatac tttctggaaa cattttat tttgttatgat 840
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tttcctcatg caaaaggatt ttgtatcccc ggcctacttg aagaagtggc cagctaaagg 960
aatccaggtt gttgggttggc ctgttaatac ctttgatgaa aagagttact acgaatccca 1020
tcttggttcc agctatatac ctgcacagcat ggttgcggatc tgcaacaccc acttctagac 1080
tttcacggc ggcacaaaacg gtttcagaaa ctgcgcagggg cctcatacag ggatataaaa 1140
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<212> DNA

<213> Homo sapiens

<220>

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<211> 148
<212> PRT
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<400> 33

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20 25 30		
Lys Lys Leu Gly Leu Asp Gly Tyr Lys Gly	Val Ser Leu Ala Asn	
35 40 45		
Trp Val Cys Leu Ala Lys Trp Glu Ser Gly	Tyr Asn Thr Asp Ala	
50 55 60		
Thr Asn Tyr Asn Pro Gly Asp Glu Ser Thr	Asp Tyr Gly Ile Phe	
65 70 75		
Gln Ile Asn Ser Arg Tyr Trp Cys Asn Asn	Gly Lys Thr Pro Gly	
80 85 90		
Ala Val Asn Ala Cys His Ile Ser Cys Asn	Ala Leu Leu Gln Asn	
95 100 105		
Asn Ile Ala Asp Ala Val Ala Cys Ala	Lys Arg Val Val Ser Asp	
110 115 120		
Pro Gln Gly Ile Arg Ala Trp Val Ala	Trp Lys Lys His Cys Gln	
125 130 135		
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<211> 148

<212> PRT

<213> Colobus angolensis

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<223> GenBank ID No: g1790967

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Lys Lys Leu Gly Leu Asp Gly Tyr Lys Gly	Val Ser Leu Ala Asn	
35 40 45		
Trp Val Cys Leu Ala Lys Trp Glu Ser Gly	Tyr Asn Thr Asp Ala	
50 55 60		
Thr Asn Tyr Asn Pro Gly Asp Glu Ser Thr	Asp Tyr Gly Ile Phe	
65 70 75		
Gln Ile Asn Ser Arg Tyr Trp Cys Asn Asn	Gly Lys Thr Pro Gly	
80 85 90		
Ala Val Asn Ala Cys His Ile Ser Cys Asn	Ala Leu Leu Gln Asn	
95 100 105		
Asn Ile Ala Asp Ala Val Ala Cys Ala	Lys Arg Val Val Ser Asp	
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<211> 148

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<212> PRT

<213> Nasalis larvatus

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<223> GenBank ID No: g1790984

<400> 35

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Trp	Val	Cys	Leu	Ala	Lys	Trp	Glu	Ser	Gly	Tyr	Asn	Thr	Glu	Ala
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Thr	Asn	Tyr	Asn	Pro	Gly	Asp	Glu	Ser	Thr	Asp	Tyr	Gly	Ile	Phe
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Gln	Ile	Asn	Ser	Arg	Tyr	Trp	Cys	Asn	Asn	Gly	Lys	Thr	Pro	Gly
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Pro	Gln	Gly	Ile	Arg	Ala	Trp	Val	Ala	Trp	Arg	Asn	His	Cys	Gln
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